

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

**THIS PAGE BLANK (USPTO)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 9, 2003, 05:35:57 ; Search time 42 Seconds  
(without alignments)  
1196.083 Million cell updates/sec

File: US-10-091-628-2  
Perfect score: 1979  
Sequence: 1 MRANCGSSSACAPANSSEEL.....PGPMCHRALPVGHTSC 377

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

ched: 908470 seqs, 133250620 residues  
Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing-first-45-summaries

Database: A Geneseq 101002:\*

1: /SID2/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:\*  
2: /SID2/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:\*  
3: /SID2/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:\*  
4: /SID2/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:\*  
5: /SID2/gcgdata/geneseq/geneseq-emb1/AA1984.DAT:\*  
6: /SID2/gcgdata/geneseq/geneseq-emb1/AA1985.DAT:\*  
7: /SID2/gcgdata/geneseq/geneseq-emb1/AA1986.DAT:\*  
8: /SID2/gcgdata/geneseq/geneseq-emb1/AA1987.DAT:\*  
9: /SID2/gcgdata/geneseq/geneseq-emb1/AA1988.DAT:\*  
10: /SID2/gcgdata/geneseq/geneseq-emb1/AA1989.DAT:\*  
11: /SID2/gcgdata/geneseq/geneseq-emb1/AA1990.DAT:\*  
12: /SID2/gcgdata/geneseq/geneseq-emb1/AA1991.DAT:\*  
13: /SID2/gcgdata/geneseq/geneseq-emb1/AA1992.DAT:\*  
14: /SID2/gcgdata/geneseq/geneseq-emb1/AA1993.DAT:\*  
15: /SID2/gcgdata/geneseq/geneseq-emb1/AA1994.DAT:\*  
16: /SID2/gcgdata/geneseq/geneseq-emb1/AA1995.DAT:\*  
17: /SID2/gcgdata/geneseq/geneseq-emb1/AA1996.DAT:\*  
18: /SID2/gcgdata/geneseq/geneseq-emb1/AA1997.DAT:\*  
19: /SID2/gcgdata/geneseq/geneseq-emb1/AA1998.DAT:\*  
20: /SID2/gcgdata/geneseq/geneseq-emb1/AA1999.DAT:\*  
21: /SID2/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:\*  
22: /SID2/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:\*  
23: /SID2/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	884	44.7	348	16	Hamster ileal/rena
2	860.5	43.5	348	16	Human ileal/rena
3	386.5	19.5	491	23	Human transporters
4	363.5	18.4	225	23	Human gene 8 encod
5	354.5	17.9	454	22	Novel human diagno
6	318.5	16.1	207	23	Human gene 8 encod
7	284	14.4	338	23	Herbicideally activ
8	280	14.1	356	21	Arabidopsis thalia
9	273	13.8	423	21	Arabidopsis thalia
10	268.5	13.6	335	22	C glutamicum prote

11	266	13.4	455	22	ABR70896
12	265.5	13.4	196	23	ABG4873
13	265.5	13.4	196	23	AAE21198
14	264.5	13.4	324	22	AAE23300
15	264	13.3	271	21	AAE22454
16	257	13.0	285	21	AAE48159
17	255	12.9	268	21	AAE22455
18	250	12.6	607	22	ABG00574
19	248	12.5	282	21	AAE48160
20	240	12.1	288	21	AAE17449
21	240	12.1	288	21	AAE42824
22	240	12.1	401	21	AAE17448
23	240	12.1	401	21	AAE42823
24	239	12.0	454	22	ABG47440
25	237.5	12.0	267	21	AAE17450
26	237.5	12.0	267	21	AAE42825
27	173	8.7	337	21	AAE404229
28	173	8.7	339	21	AAE40109
29	173	8.7	409	21	AAE404228
30	173	8.7	411	21	AAE40108
31	173	8.7	415	21	AAE404227
32	173	8.7	417	21	AAE40107
33	171	8.6	460	23	ABE33051
34	156	7.9	379	23	ABE32907
35	150	7.6	342	21	AAE21862
36	150	7.6	342	21	AAE51196
37	150	7.6	342	21	AAE51219
38	150	7.6	354	21	AAE21861
39	150	7.6	354	21	AAE51195
40	150	7.6	354	21	AAE51218
41	150	7.6	431	21	AAE21860
42	150	7.6	431	21	AAE51194
43	150	7.6	431	21	AAE51217
44	142	7.2	65	22	AAE5663
45	129.5	6.5	394	23	ABE92435

## ALIGNMENTS

RESULT 1  
AAR77224  
ID AAR77224 standard; Protein; 348 AA.  
XX AAR77224;  
AC AAR77224;  
XX  
DT 17-DEC-1995 (first entry)  
XX  
DE Hamster ileal/renal bile acid cotransporter.  
XX  
XX

XX Ileal/renal bile acid cotransporter; therapeutic; gene therapy;  
XX diagnostic.  
XX

OS Cricetus griseus.

XX MO95117905-A1  
XX  
XX 06-JUL-1995.  
XX

XX 29-DEC-1994; 94WO-US14431.  
XX  
XX  
XX 29-DEC-1993; 93US-0176126.  
XX  
XX (UYWA-) UNIV WAKE FOREST.  
XX  
XX Dawson PA;  
XX

XX WPI: 1995-246189/32.  
XX  
XX N-PSDB; AAG91108.  
XX

XX Hamster and human ileal and bile acid transport DNA and protein  
XX useful in treatment of e.g. hypercholesterolaemia, diabetes and  
XX various digestive diseases, and in gene therapy to restore bile acid

[illegible]

DR	WPI; 1995-246189/32.
DR	N-PsDB; AAQ91109.
XX	
PT	Hamster and human ileal and bile acid transport DNA and protein
PT	useful in treatment of e.g. hypercholesterolaemia, diabetes and
PT	various digestive diseases, and in gene therapy to restore bile acid
XX	uptake activity.
PS	
XX	Claim 34; Page 111-114; 148pp; English.
CC	The ileal/renal bile acid cotransporter protein is useful in the
CC	treatment of hypercholesterolemia, diabetes, heart disease, liver
CC	disease and various digestive disorders. The cDNA may be used in
CC	gene therapy to restore bile acid uptake activity to patients whose
CC	ileum has been surgically resected for diseases such as Crohn
CC	disease, patients born with congenital defects in the bile
CC	transporter, and patients suffering from adult-onset chronic
CC	idiopathic bile acid diarrhoea. The DNA and protein may be used in
CC	screening methods as modulators of ileal/renal bile acid cotransport
CC	activity.
SQ	Sequence 348 AA;
Query Match	43.5%; Score 860.5; DB 16; Length 348;
Best Local Similarity	45.6%; Pred. No. 1.4e-85;
Matches 160; Conservative 68; Mismatches 104; Indels 19; Gaps 4	
OY	5 CSSSSACFANSSSEBELPVGLVEVHGHLDELFTVVSVTMGMGLMFSGCSVEIRKLMSHIR 64
Db	14 CSGASCVBPESNPNFI-----LSVYLSTVLITLALVMFSGCVNEIKKFLGIHKR 64
OY	65 PWGIAGVLLCOPLMPFTAYILLAISFSLSKPVOAILAVIMGCCPGGTISNIFFWVDGMD 124
Db	65 PWGICVGFLCOFGIMPFLTGFLISAFAFDLPLOAAVVLIIGCCPGGTASNIIAAVWDGMD 124
OY	125 LSISSMTSTVAALGGMPLCIYLTWMSNLQONLTPIONIGITLVCTTIPVAFGVVNY 184
Db	125 LVSNTTCSTILLAGMPLCLLIITYTKMWBSGSIVTFPDNIGTSIALVALVPVISIGFPNH 184
OY	185 RWPKOSKIILKIGAVGVGLLVAVAGVLAAGWSNDITLTLTSPFLIGHVTPLL 244
Db	185 KMPGRAKIILKIGSIAGAAILVLAVAGGIIYGOSAMWIAPKLMIIGTFFPVGYSLGFL 244
OY	245 ALFTHQSQRERTISLETGANIQOMCTMLDLSFAEHLVQMLSPELAYGVFQLIDGPL 304
Db	245 ARIAGLPYRCRTVAFEFGMONTOLCSTIVSLSFTEBLNAVETFPPLYSIFQLPAATF 304
OY	305 VAAVOTYKRRLKNKGKKNSGCTEVCHTRKSTSRETAFLFVNREGAATP 355
Db	305 LGFYVAAYKK----CHGNKAKEIPE----SKNGTPESSPFKAN--GGFQP 345
RESULT 3	
AAEI3283	
ID	AAEI3283 standard; Protein; 491 AA.
XX	
AC	AAEI3283;
XX	
DT	12-FEB-2002 (first entry)
DE	
XX	Human transporters and ion channels (TRICH)-10.
KW	Human; transporter and ion channel; TRICH; akinesia; cystic fibrosis;
KW	diabetes mellitus; Parkinson's disease; myasthenia gravis; dementia;
KW	cardiac disorder; angina; hypertension; myocarditis; hyperglycaemia;
KW	neurological disorder; Alzheimer's disease; cataract; infertility;
KW	Wilson's disease; schizophrenia; Grave's disease; Addison's disease;
KW	Huntington's disease; multiple sclerosis; meningitis; hypotensive;
KW	candidant; nootropic; neuroprotective; neuroleptic; ophthalmological;
KW	antithyroid; anticonvulsant; goitre; antiinflammatory.
XX	
OS	Homo sapiens.
XX	

Key	Location/Qualifiers
PH	Domain 241..261
FT	/label= Transmembrane_domain
FT	251..439
FT	/note= "Sodium, acid and bile transporter domain"
FT	288..307
FT	/label= Transmembrane_domain
FT	325..343
FT	/label= Transmembrane_domain
FT	416..435
FT	/label= Transmembrane_domain
XX	
PN	MO200177174-A2.
XX	
XX	18-OCT-2001.
PF	
XX	06-APR-2001; 2001WO-US11206.
PR	06-APR-2000; 2000US-195595P.
PR	12-APR-2000; 2000US-196872P.
PR	20-APR-2000; 2000US-199020P.
PR	28-APR-2000; 2000US-200552P.
PR	05-MAY-2000; 2000US-202348P.
PR	11-MAY-2000; 2000US-203495P.
XX	
PA	(INCY-) INCYTE GENOMICS INC.
PI	Reddy R, Thornton M, Borowsky ML, Tang YT, Khan FA, Tribouley CM, Gandhi AR, Yao MG, Sanjanwala MS, Baughn MR, Nguyen DB; Politsky JL, Yue H, Seilhamer JJ, Walla NK, Lal P, Kearney L; Walsh RT, Lu DM, Lu Y, Greene BD, Raumann BS, Patterson C; WPI; 2002-017448/02.
DR	N-PSDB; AAD22002.
XX	
PT	Polypeptides of human transporters and ion channels, useful for diagnosing, treating or preventing disorders of transport, neurological, muscle, immunological and cell proliferative disorders -
XX	
PS	Claim 1; Page 130-131; 150pp; English.
XX	
CC	The invention relates to human transporters and ion channels (TRICH) and the polynucleotides encoding them. The composition comprising TRICH or agonist of TRICH is useful for treating a disease or condition associated with decreased expression of functional TRICH or condition associated with overexpression of TRICH respectively. The composition comprising Ab is useful for diagnosing a condition of disease associated with expression of TRICH in a subject, where the disorders include a transport disorder such as akathisia, cystic fibrosis, diabetes mellitus, Parkinson's disease, myasthenia gravis, cardiac disorders associated with transport e.g. angina, hypertension, myocarditis, neurological disorders associated with transport e.g. Alzheimer's disease, Wilson's disease, schizophrenia, cataracts, infertility, hyperglycaemia, Grave's disease, goitre, Addison's disease, Huntington's disease, dementia, multiple sclerosis, bacterial and viral meningitis. TRICH DNA is useful for generating a transcript image of a tissue or cell type, which represents the global pattern of gene expression by a particular tissue or cell type and for analysing the proteome of a tissue or cell type. TRICH DNA is used in gene therapy. The present amino acid sequence is human TRICH10 protein.
XX	
XX	Sequence 491 AA;
Query Match	19.5%; Score 386.5; DB 23; Length 491;
Best Local Similarity	27.1%; Pred. No. 2.4e-13;
Matches	95; Conservative 56; Mismatches 105; Indels 95; Gaps 7
44	LMFSLGSGVEIRKLMISHIRPFGIAGVGLCOFGMLPFPAVYLLAISFSKPYQA--IAVL 101
115	ITMLGIGCTVDVNHGCAHYRR---VVALLLALPVRPPAAGIPAPRRIQAGNGRGRL 171
102	IMGCCPGGTSINIFTFWVDGMDL----- 125

Db		172	LCGCCGAGLNSIMSLVNDGDNNLRALLALSSDVSQAQSTGTGLAVSPFHLISTYKKK	221
Oy		126	-----SISMTTCSVAALGMPELTCTIYYTWSM--SLQQNLTIPIQ	163
Db		232	VSMLEPDSKLIVLISAHSIFCSIIMTTISSTLLVALVMPLCLMIYSWAMINTPIVQ--LIPLIG	289
Oy		164	NIGITLVCLTIIPAVEGVVVNYNMPQSKIIKI-----CAVVGCVLLV	207
Db		290	TVTLLTCSTLIPIGLGVFIRYRSVAADYIVKVSLSMLTVTLVFLMTGTMLPELLAS	349
Oy		208	VAAVGLVLAKGSWNSDITLLTSFPFLIGHVTGLLALFTHQSGWCRCSTSETGAONI	267
Db		350	IPAAVAVIA-----IMPLAAGVASGGALATLEHLPNCRKYTCLETGSONV	355
Oy		268	QMCIPTMLQSFTAELHVOMLSAPLAYGLFQLIDGLFIVAAYQTYKRRLKNK	318
Db		396	OLCTAIILKIAPFGPGISWMYMFPLLXALFQSAEAGIFVLIIKMYGSEWLHK	446
RESULT 4				
XX	ID	AAE21252	standard; Protein; 225 AA.	
AC		AAE21252;		
XX		01-JUL-2002	(first entry)	
DT				
XX				
DE				
XX				
KM		Human gene 8 encoded secreted protein fragment, SEQ ID NO:117.		
KM		Human; secreted protein; immune disorder; anti-allergic; antirheumatic;		
KM		rheumatoid arthritis; breast neoplasia; breast cancer; antiarthritis;		
KM		neurological disease; Alzheimer's disease; Parkinson's disease; traua;		
KM		Tourette syndrome; encephalitis; cystostatic; haemostatic; anaemia; mania;		
KM		antiinflammatory; ophthalmological; dermatologic; immunosimulatory;		
KM		immunomodulatory; immunosuppressive; antibacterial; antipsoriatic;		
KM		gene therapy; autoimmune disease; Huntington's disease; meningitis;		
KM		demyelinating disease; peripheral neuropathy; congenital malformation;		
KM		spinal cord injury; peripheral neuropathy; ischaemia; perception;		
KM		multiple sclerosis; infarction; haemorrhage; schizophrenia; dementia;		
KM		depression; panic disorder; learning disability; ALS; feeding disorder;		
KM		hyperproliferative disorder; sleep pattern; cardiovascular disorder;		
KM		reproductive disorder; digestive system disorder; behavioural disorder.		
XX				
OS		Homo sapiens.		
XX				
FH	Key	Location/Qualifiers		
FT	Misc-difference	200	/label= Unknown	
FT		/note= "Xaa equals any of the naturally occurring		
FT		L-amino acids"		
FT	Misc-difference	204	/label= Unknown	
FT		/note= "Xaa equals any of the naturally occurring		
FT		L-amino acids"		
FT	Misc-difference	206	/label= Unknown	
FT		/note= "Xaa equals any of the naturally occurring		
FT		L-amino acids"		
FT	Misc-difference	210	/label= Unknown	
FT		/note= "Xaa equals any of the naturally occurring		
FT		L-amino acids"		
FT	Misc-difference	214	/label= Unknown	
FT		/note= "Xaa equals any of the naturally occurring		
FT		L-amino acids"		
FT	Misc-difference	217	/label= Unknown	
FT		/note= "Xaa equals any of the naturally occurring		
FT		L-amino acids"		
FT	Misc-difference	218	/label= Unknown	
FT		/note= "Xaa equals any of the naturally occurring		
FT		L-amino acids"		
FT		/note= "Xaa equals any of the naturally occurring		



QY 65 PWGIAGVLLCOFGMLPFTAVYLLAIFSLKPVQAIAMVIMGCGPGTISNIFTFVWVGMD 124  
DB 310 PWGIAGVLLCOFGMLPFTAVYLLAIFSLKPVQAIAMVIMGCGPGTISNIFTFVWVGMD 369  
QY 125 L 125  
Db 370 L 370

RESULT 6  
AAE21253  
ID AAE21253 standard; Protein; 207 AA.  
AC AAE21253;  
XX 01-JUL-2002 (first entry)  
XX Human gene 8 encoded secreted protein fragment, SEQ ID NO:118.

Human; secreted protein; immune disorder; anti-allergic; anti-rheumatic;  
rheumatoid arthritis; breast neoplasia; breast cancer; antiarthritic;  
neurological disease; Alzheimer's disease; Parkinson's disease; trauma;  
Tourette syndrome; encephalitis; cytostatic; haemostatic; anaemia; mania;  
anti-inflammatory; ophthalmological; dermatological; immunostimulatory;  
immunomodulatory; immunosuppressive; antibacterial; antiparasitic;  
demyelinating disease; peripheral neuropathy; congenital malformation;  
spinal cord injury; peripheral neuropathy; ischaemia; perception;  
multiple sclerosis; infection; haemorrhage; schizophrenia; dementia;  
depression; panic disorder; learning disability; AIDS; feeding disorder;  
hyperproliferative disorder; sleep pattern; cardiovascular disorder;  
reproductive disorder; digestive system disorder; behavioural disorder.

XX Homo sapiens.  
OS WO200216390-A1.  
XX 28-FEB-2002.  
XX 17-JAN-2001; 2001WO-US01435.  
XX 18-AUG-2000; 2000US-226282P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Komatsoulis GA, Baker KP, Birse CE, Soppet DR, Olsen HS;  
XX Moore PA, Wei P, Ebner R, Duan DR, Shi Y, Choi GH, Fischella M;  
XX Ni J;  
XX WPI: 2002-304113/34.

DR An isolated nucleic acid molecule (I) comprising a polynucleotide which  
XX encodes a polypeptide useful in the diagnosis and treatment of  
XX disorders e.g. immune disorders -  
XX Disclosure; Page 26; 534pp; English.

XX AAD33692-AAD33736 represent cDNAs corresponding to 21 human secreted  
XX protein genes, and AAE21191-AAE21235 represent the proteins they encode.  
XX AAE21236-AAE21280 represent human secreted protein fragments. The genes  
XX and their corresponding secreted proteins are useful for preventing,  
XX treating or ameliorating medical conditions, e.g., by protein or gene  
XX therapy. Pathological conditions can be diagnosed by determining the  
XX amount of the new protein in a sample or by determining the presence of  
XX mutations in the new genes. Specific uses are described for each of the  
XX 21 genes, based on the tissues in which they are most highly expressed,  
XX and include developing products for the diagnosis or treatment of  
XX immune or autoimmune diseases e.g. AIDS (acquired immune deficiency  
XX syndrome), asthma, anaemia and rheumatoid arthritis, breast neoplasia  
XX and breast cancer, neurological diseases e.g. Alzheimer's disease,  
XX Parkinson's disease, Huntington's disease, Tourette syndrome,  
XX meningitis, demyelinating disease, peripheral neuropathies, neoplasia,  
XX trauma, congenital malformations, spinal cord injuries, toxic

CC neuropathies induced by neurotoxins, peripheral neuropathies, multiple  
CC sclerosis, ischaemia and infarction, haemorrhages, schizophrenia, mania,  
CC dementia, depression, panic disorder, learning disabilities, AIDS,  
CC altered behaviours e.g. disorders in feeding, sleep patterns, balance  
CC and perception, encephalitis, disorders in cardiovascular, neural/  
CC sensory, reproductive and digestive systems, behavioural disorders and  
CC hyperproliferative disorder. The present sequence represents human  
CC secreted protein fragment referred to in the disclosure of the invention.  
XX

SEQ Sequence 207 AA;  
Query Match 16.1%; Score 318.5; DB 23; Length 207;  
Best Local Similarity 33.0%; Pred. No. 2.1e-26;  
Matches 70; Conservative 40; Mismatches 67; Indels 35; Gaps 4;

QY 119 VDGMDLSISMTTSTSTVAALGMPCLTYLYWSM---SLQNLITIPYONIGITVCLTIP 175  
DB 5 VDGMDLSISMTTSTSTVAALGMPCLTYLYWSM---SLQNLITIPYONIGITVCLTIP 62  
QY 176 VAFGVYVYRMPKSKIIKI-----GAVGVYLLVAVAGVLAAGS 219  
DB 63 IGLGVFIKYSRVADYIVKSLMSLVTLVAVLFTMTCTMLGPPLASIPAAVYIA--- 119  
QY 220 WNSDITLITISFIPPLIGHVTFPLAFTHOSWOCRTISLETGAONIOWCITMLOLSPT 279  
DB 120 -----IPMPLAGVAGYGATLFLHPNCKRIVCLTETSQNVQLCTALIKLAF 168  
QY 280 AEHLVQMSPLPANGFLQILIDGFLVAAVQY 311  
DB 169 PQLGSMYMPFLVYALFQSAEAGIFVLYKMY 200

RESULT 7  
ABB91897  
ID ABB91897 standard; Protein; 338 AA.  
XX ABB91897;  
XX 31-MAY-2002 (first entry)  
XX Herbicidally active polypeptide SEQ ID NO 1108.  
XX DE Herbicidally active polypeptide SEQ ID NO 1108.  
XX Herbicidal; plant; agriculture; herbicide.  
XX Arabidopsis thaliana.  
XX OS WO200210210-A2.  
XX 07-FEB-2002.  
XX 28-AUG-2001; 2001WO-EP09892.  
XX 28-AUG-2001; 2001WO-EP09892.  
XX (FARB ) BAYER AG.  
XX Tietjen K, Weidler M;  
XX WPI: 2002-269010/31.

DR Identifying plant target proteins for herbicidally active compounds,  
XX comprising aligning and comparing nucleic acid or amino acid sequences  
XX from plant with nucleic acid or amino acid sequences from non-plant  
XX organisms -  
XX Claim 5; SEQ ID NO 1108; 261pp + Sequence Listing; English.

XX The invention relates to identifying target proteins  
XX (ABB90790-ABB94016) for herbicidally active compounds, comprising  
XX aligning and comparing nucleic acid or amino acid sequences from plant  
XX with nucleic acid or amino acid sequences from non-plant organisms using  
XX suitable search parameters, where plant sequences having an E-value  
XX greater by a factor of 3 than the E-value of most similar non-plant

CC sequences are selected. The polypeptides or nucleic acids encoding them  
CC are useful for identifying modulators. The identified modulators are  
CC useful as herbicides.

XX  
XX  
XX  
SQ Sequence 338 AA;

Query Match 14.4%; Score 284; DB 23; Length 338;

Best Local Similarity 25.8%; Pred. No. 2,5e-22; Indels 56; Gaps 8;

Matches 80; Conservative 54; Mismatches 120;

OY 9 SACPAASSEELVGLVHGNL-----ELVFTV-----VSTVM 42

DB 15 SCCRITTSRVVCAAGVSGDLPESTPKELSYEKIEILTLTPPLMTWLELDTLGL 74

OY 43 GLMFSLGCSVEIRKLMHSIRPFWGIAVGLLCQFGMLPFTAVLLAISFSIKPVQAIAYVI 102

DB 75 GFLLMSMGLTLTFEDPRRCIRNPMWVGFLAQYMKPIGFIAMTLKLSAPLATGLIL 134

OY 103 MGCCRCGTISNITFPVDDGMDLSMTCTSTVAALGMPDLCTVLTWMSLQONTITPY 162

135 VSCCPGQASNVATYSKGNVALSVMTCTSTGALIMPPLT-----KLIAQLVVP 187

163 QNIGI---TLVCLTIPVAFGVYVYVWPKOSKIILKIGAVGVLILVA-----VAGY 213

DB 188 DAAGLALSTFQVVLVFTIIGVLANEFPEPKTSKIITVPLIGVILTLICASPFGVADV 247

OY 214 VLAQSWNSDITLLTTSFIPPL-IGHVTGFLALFTHQ--SWQCRITISLETGAONIQM 269

DB 248 LKTQGA-----QLILPVALHAAFAIGWISKFSFGESTRTISIECGMOSAL 297

OY 270 CITMLQLSFT 279

DB 298 GFLLAQKHFT 307

RESULT 8

ANAG22453

ID. ANAG22453 standard; Protein; 356 AA.

XX  
XX  
XX  
AC AAG22453;

DT 17-OCT-2000 (first entry)

XX Arabidopsis thaliana protein fragment SEQ ID NO: 25387.

XX Protein identification; signal transduction pathway; metabolic pathway;  
KW hybridisation assay; genetic mapping; gene expression control; promoter;  
KW termination sequence.

XX Arabidopsis thaliana.

PN EP1033405-A2.

XX  
XX  
XX  
PD 06-SEP-2000.

PF 25-FEB-2000; 2000EB-0301439.

XX  
XX  
XX  
PR 25-FEB-1999; 99US-0121825.

PR 05-MAR-1999; 99US-0123180.

PR 09-MAR-1999; 99US-0123548.

PR 23-MAR-1999; 99US-0125788.

PR 25-MAR-1999; 99US-0126264.

PR 29-MAR-1999; 99US-0126785.

PR 01-APR-1999; 99US-0127462.

PR 06-APR-1999; 99US-0128234.

PR 16-APR-1999; 99US-0128714.

PR 19-APR-1999; 99US-0129845.

PR 21-APR-1999; 99US-0130077.

PR 23-APR-1999; 99US-0130449.

PR 23-APR-1999; 99US-0130510.

PR 28-APR-1999; 99US-0130891.

PR 30-APR-1999; 99US-0131449.

PR 30-APR-1999; 99US-0132048.

PR 30-APR-1999; 99US-01323407.

PR 04-MAY-1999; 99US-0132484.

PR 05-MAY-1999; 99US-0132485.

PR 06-MAY-1999; 99US-0132486.

PR 06-MAY-1999; 99US-0132487.

PR 07-MAY-1999; 99US-0132863.

PR 11-MAY-1999; 99US-0134256.

PR 14-MAY-1999; 99US-0134218.

PR 14-MAY-1999; 99US-0134219.

PR 14-MAY-1999; 99US-0134221.

PR 14-MAY-1999; 99US-0134370.

PR 18-MAY-1999; 99US-0134768.

PR 19-MAY-1999; 99US-0134941.

PR 20-MAY-1999; 99US-0135124.

PR 24-MAY-1999; 99US-0135353.

PR 24-MAY-1999; 99US-0135629.

PR 25-MAY-1999; 99US-0136021.

PR 27-MAY-1999; 99US-0136392.

PR 28-MAY-1999; 99US-0136782.

PR 01-JUN-1999; 99US-0137222.

PR 03-JUN-1999; 99US-0137528.

PR 04-JUN-1999; 99US-0137502.

PR 07-JUN-1999; 99US-0137724.

PR 08-JUN-1999; 99US-0138094.

PR 10-JUN-1999; 99US-0138540.

PR 10-JUN-1999; 99US-0138847.

PR 14-JUN-1999; 99US-0139119.

PR 16-JUN-1999; 99US-0139452.

PR 16-JUN-1999; 99US-0139453.

PR 17-JUN-1999; 99US-0139492.

PR 18-JUN-1999; 99US-0139454.

PR 18-JUN-1999; 99US-0139455.

PR 18-JUN-1999; 99US-0139456.

PR 18-JUN-1999; 99US-0139457.

PR 18-JUN-1999; 99US-0139458.

PR 18-JUN-1999; 99US-0139459.

PR 18-JUN-1999; 99US-0139460.

PR 18-JUN-1999; 99US-0139461.

PR 18-JUN-1999; 99US-0139462.

PR 18-JUN-1999; 99US-0139463.

PR 18-JUN-1999; 99US-0139750.

PR 18-JUN-1999; 99US-0139763.

PR 21-JUN-1999; 99US-0139817.

PR 22-JUN-1999; 99US-0139899.

PR 23-JUN-1999; 99US-0140353.

PR 23-JUN-1999; 99US-0140354.

PR 24-JUN-1999; 99US-0140695.

PR 28-JUN-1999; 99US-0140823.

PR 29-JUN-1999; 99US-0140991.

PR 30-JUN-1999; 99US-0141287.

PR 01-JUL-1999; 99US-0141842.

PR 01-JUL-1999; 99US-0142154.

PR 02-JUL-1999; 99US-0142055.

PR 06-JUL-1999; 99US-0142390.

PR 08-JUL-1999; 99US-0142803.

PR 09-JUL-1999; 99US-0142920.

PR 12-JUL-1999; 99US-0142977.

PR 13-JUL-1999; 99US-0143542.

PR 14-JUL-1999; 99US-0143624.

PR 15-JUL-1999; 99US-0144005.

PR 16-JUL-1999; 99US-0144085.

PR 19-JUL-1999; 99US-0144325.

PR 19-JUL-1999; 99US-0144331.

PR 19-JUL-1999; 99US-0144332.

PR 19-JUL-1999; 99US-0144333.

PR 19-JUL-1999; 99US-0144334.

PR 19-JUL-1999; 99US-0144335.

PR 20-JUL-1999; 99US-0144332.

PR 20-JUL-1999; 99US-0144632.

PR 20-JUL-1999; 99US-0144884.

PR 21-JUL-1999; 99US-0144814.

PR 21-JUL-1999; 99US-0145086.

Query Match	14.1%	Score 280	DB 21	Length 356
Best Local Similarity	27.5%	Pred. No. 7.4e-22		
Matches	71	Conservative 50	Mismatches 107	Indels 30
		Gaps 6		
PR 21-OCT-1999	99US-0160767			
PR 21-OCT-1999	99US-0160768			
PR 21-OCT-1999	99US-0160770			
PR 21-OCT-1999	99US-0160814			
PR 21-OCT-1999	99US-0160815			
PR 22-OCT-1999	99US-0160980			
PR 22-OCT-1999	99US-0160981			
PR 22-OCT-1999	99US-0160989			
PR 25-OCT-1999	99US-0161404			
PR 25-OCT-1999	99US-0161405			
PR 25-OCT-1999	99US-0161406			
PR 26-OCT-1999	99US-0161359			
PR 26-OCT-1999	99US-0161360			
PR 26-OCT-1999	99US-0161361			
PR 28-OCT-1999	99US-0161920			
PR 28-OCT-1999	99US-0161992			
PR 28-OCT-1999	99US-0161993			
PR 29-OCT-1999	99US-0162142			
Query Match	14.1%	Score 280	DB 21	Length 356
Best Local Similarity	27.5%	Pred. No. 7.4e-22		
Matches	71	Conservative 50	Mismatches 107	Indels 30
		Gaps 6		
QY 35	TVVSTWMMGLMNSLGSVSEIRKMSIRRPWGIANGVLCQFGLMPFPAVYLAISFSKLP	94		
DB 75	TDFTTGLGGLMMSWGLTFEEDFRRLRNFWYGVGLQYMKPIGLFIAMTKLSA	134		
QY 95	VOIAIVIMWCRCGGTISNFTFWDDMDISMTGCSYFAALGMPPLCIYLTWSMSL	154		
DB 135	PLATGLIVCCRCGGQSNVATYISKVNAVSVMTCSTGALIMPLT-----KL	187		
QY 155	QONLTIPYONIGI---TLVCLTIIPVAFGVYVYVWPKOSKIILKIGAVGVLLVA--	209		
DB 188	LAGQLVVDAAAGLALSTFOVVLVPTLIIGLVANEFPRKTSKIIIVTPIGVILITLILCAS	247		
QY 210	----VAGVTLAKGSWNSDITLLTISFFPL-IGHVTGFLALFTHQ--SMQRCTISLE	261		
DB 248	PIQGVADVLTQGA-----QLTLPVALLHAAFAIGWISKESFGESTSKTISIE	297		
QY 262	TGAONIQMCITMLQLSFT	279		
DB 298	CGMOSNALGFLIAQKFT	315		
RESULT 9				
AA648158				
ID	AA648158 standard; Protein: 423 AA.			
XX				
AC	AA648158;			
XX				
DT	18-OCT-2000 (first entry)			
XX				
DE	Arabidopsis thaliana protein fragment SEQ ID NO: 60787.			
XX				
KM	Protein identification; signal transduction pathway; metabolic pathway;			
KW	hybridisation assay; genetic mapping; gene expression control; promoter;			
XX	termination sequence.			
OS	Arabidopsis thaliana.			
XX				
PN	EP1033405-A2.			
XX				
PD	06-SEP-2000.			
XX				
PF	25-FEB-2000; 2000EP-0301439.			
XX				
PR	25-FEB-1999; 99US-0121825.			
PR	05-MAR-1999; 99US-0123180.			
PR	09-MAR-1999; 99US-0123548.			
PR	23-MAR-1999; 99US-0125788.			
PR	25-MAR-1999; 99US-0126264.			
PR	29-MAR-1999; 99US-0126785.			
PR	01-APR-1999; 99US-0127462.			

PR 06-APR-1999; 99US-0128234.  
 PR 08-APR-1999; 99US-0128714.  
 PR 16-APR-1999; 99US-0129845.  
 PR 19-APR-1999; 99US-0130077.  
 PR 21-APR-1999; 99US-0130449.  
 PR 23-APR-1999; 99US-0130510.  
 PR 23-APR-1999; 99US-0130891.  
 PR 28-APR-1999; 99US-0131449.  
 PR 30-APR-1999; 99US-0132048.  
 PR 04-MAY-1999; 99US-0132407.  
 PR 05-MAY-1999; 99US-0132484.  
 PR 06-MAY-1999; 99US-0132485.  
 PR 06-MAY-1999; 99US-0132486.  
 PR 06-MAY-1999; 99US-0132487.  
 PR 07-MAY-1999; 99US-0132863.  
 PR 11-MAY-1999; 99US-0134256.  
 PR 14-MAY-1999; 99US-0134218.  
 PR 14-MAY-1999; 99US-0134219.  
 PR 14-MAY-1999; 99US-0134221.  
 PR 14-MAY-1999; 99US-0134370.  
 PR 18-MAY-1999; 99US-0134768.  
 PR 19-MAY-1999; 99US-0134941.  
 PR 20-MAY-1999; 99US-0135124.  
 PR 21-MAY-1999; 99US-0135353.  
 PR 24-MAY-1999; 99US-0135629.  
 PR 25-MAY-1999; 99US-0136021.  
 PR 27-MAY-1999; 99US-0136392.  
 PR 28-MAY-1999; 99US-0136782.  
 PR 01-JUN-1999; 99US-0137222.  
 PR 03-JUN-1999; 99US-0137528.  
 PR 04-JUN-1999; 99US-0137502.  
 PR 07-JUN-1999; 99US-0137724.  
 PR 08-JUN-1999; 99US-0138094.  
 PR 10-JUN-1999; 99US-0138540.  
 PR 14-JUN-1999; 99US-0139119.  
 PR 16-JUN-1999; 99US-0139452.  
 PR 16-JUN-1999; 99US-0139453.  
 PR 17-JUN-1999; 99US-0139492.  
 PR 18-JUN-1999; 99US-0139454.  
 PR 18-JUN-1999; 99US-0139455.  
 PR 18-JUN-1999; 99US-0139456.  
 PR 18-JUN-1999; 99US-0139457.  
 PR 18-JUN-1999; 99US-0139458.  
 PR 18-JUN-1999; 99US-0139459.  
 PR 18-JUN-1999; 99US-0139460.  
 PR 18-JUN-1999; 99US-0139461.  
 PR 18-JUN-1999; 99US-0139462.  
 PR 18-JUN-1999; 99US-0139463.  
 PR 18-JUN-1999; 99US-0139750.  
 PR 18-JUN-1999; 99US-0139763.  
 PR 21-JUN-1999; 99US-0139817.  
 PR 22-JUN-1999; 99US-0139839.  
 PR 23-JUN-1999; 99US-0140353.  
 PR 23-JUN-1999; 99US-0140354.  
 PR 24-JUN-1999; 99US-0140635.  
 PR 28-JUN-1999; 99US-0140823.  
 PR 29-JUN-1999; 99US-0140891.  
 PR 30-JUN-1999; 99US-0141287.  
 PR 01-JUL-1999; 99US-0141842.  
 PR 01-JUL-1999; 99US-0142154.  
 PR 02-JUL-1999; 99US-0142055.  
 PR 06-JUL-1999; 99US-0142390.  
 PR 08-JUL-1999; 99US-0142803.  
 PR 09-JUL-1999; 99US-0142977.  
 PR 12-JUL-1999; 99US-0142977.  
 PR 13-JUL-1999; 99US-0143542.  
 PR 14-JUL-1999; 99US-0143624.  
 PR 15-JUL-1999; 99US-0144005.  
 PR 16-JUL-1999; 99US-0144085.  
 PR 16-JUL-1999; 99US-0144086.  
 PR 19-JUL-1999; 99US-0144325.  
 PR 19-JUL-1999; 99US-0144331.

PR 19-JUL-1999; 99US-0144332.  
 PR 19-JUL-1999; 99US-0144333.  
 PR 19-JUL-1999; 99US-0144334.  
 PR 19-JUL-1999; 99US-0144335.  
 PR 20-JUL-1999; 99US-0144352.  
 PR 20-JUL-1999; 99US-0144632.  
 PR 20-JUL-1999; 99US-0144884.  
 PR 21-JUL-1999; 99US-0144814.  
 PR 21-JUL-1999; 99US-0145086.  
 PR 21-JUL-1999; 99US-0145088.  
 PR 22-JUL-1999; 99US-0145085.  
 PR 22-JUL-1999; 99US-0145087.  
 PR 22-JUL-1999; 99US-0145089.  
 PR 22-JUL-1999; 99US-0145192.  
 PR 23-JUL-1999; 99US-0145145.  
 PR 23-JUL-1999; 99US-0145218.  
 PR 23-JUL-1999; 99US-0145224.  
 PR 26-JUL-1999; 99US-0145276.  
 PR 27-JUL-1999; 99US-0145913.  
 PR 27-JUL-1999; 99US-0145918.  
 PR 27-JUL-1999; 99US-0145919.  
 PR 28-JUL-1999; 99US-0145951.  
 PR 02-AUG-1999; 99US-0146386.  
 PR 02-AUG-1999; 99US-0146389.  
 PR 03-AUG-1999; 99US-0147038.  
 PR 04-AUG-1999; 99US-0147204.  
 PR 04-AUG-1999; 99US-0147302.  
 PR 05-AUG-1999; 99US-0147192.  
 PR 05-AUG-1999; 99US-0147260.  
 PR 06-AUG-1999; 99US-0147303.  
 PR 06-AUG-1999; 99US-0147416.  
 PR 09-AUG-1999; 99US-0147493.  
 PR 09-AUG-1999; 99US-0147935.  
 PR 10-AUG-1999; 99US-0148171.  
 PR 11-AUG-1999; 99US-0148319.  
 PR 12-AUG-1999; 99US-0148341.  
 PR 13-AUG-1999; 99US-0148565.  
 PR 13-AUG-1999; 99US-0148684.  
 PR 16-AUG-1999; 99US-0149368.  
 PR 17-AUG-1999; 99US-0149175.  
 PR 18-AUG-1999; 99US-0149426.  
 PR 20-AUG-1999; 99US-0149722.  
 PR 20-AUG-1999; 99US-0149723.  
 PR 20-AUG-1999; 99US-0149929.  
 PR 23-AUG-1999; 99US-0149902.  
 PR 23-AUG-1999; 99US-0149930.  
 PR 25-AUG-1999; 99US-0150566.  
 PR 26-AUG-1999; 99US-0150884.  
 PR 27-AUG-1999; 99US-0151065.  
 PR 27-AUG-1999; 99US-0151066.  
 PR 27-AUG-1999; 99US-0151080.  
 PR 30-AUG-1999; 99US-0151303.  
 PR 31-AUG-1999; 99US-0151438.  
 PR 01-SEP-1999; 99US-0151930.  
 PR 07-SEP-1999; 99US-0152363.  
 PR 10-SEP-1999; 99US-0153070.  
 PR 13-SEP-1999; 99US-0153758.  
 PR 15-SEP-1999; 99US-0154018.  
 PR 16-SEP-1999; 99US-0154039.  
 PR 20-SEP-1999; 99US-0154779.  
 PR 22-SEP-1999; 99US-0155139.  
 PR 23-SEP-1999; 99US-0155486.  
 PR 24-SEP-1999; 99US-0155659.  
 PR 28-SEP-1999; 99US-0156458.  
 PR 29-SEP-1999; 99US-0156596.  
 PR 04-OCT-1999; 99US-0157117.  
 PR 05-OCT-1999; 99US-0157753.  
 PR 06-OCT-1999; 99US-0157863.  
 PR 07-OCT-1999; 99US-0158029.  
 PR 08-OCT-1999; 99US-0158232.  
 PR 12-OCT-1999; 99US-0158369.  
 PR 13-OCT-1999; 99US-0159293.

PR 13-OCT-1999; 99US-0159294.  
 PR 13-OCT-1999; 99US-0159295.  
 PR 14-OCT-1999; 99US-0159329.  
 PR 14-OCT-1999; 99US-0159330.  
 PR 14-OCT-1999; 99US-0159331.  
 PR 14-OCT-1999; 99US-0159637.  
 PR 14-OCT-1999; 99US-0159638.  
 PR 18-OCT-1999; 99US-0159584.  
 PR 21-OCT-1999; 99US-0160741.  
 PR 21-OCT-1999; 99US-0160767.  
 PR 21-OCT-1999; 99US-0160768.  
 PR 21-OCT-1999; 99US-0160770.  
 PR 21-OCT-1999; 99US-0160814.  
 PR 21-OCT-1999; 99US-0160815.  
 PR 22-OCT-1999; 99US-0160980.  
 PR 22-OCT-1999; 99US-0160981.  
 PR 22-OCT-1999; 99US-0160989.  
 PR 25-OCT-1999; 99US-0161404.  
 PR 25-OCT-1999; 99US-0161405.  
 PR 25-OCT-1999; 99US-0161406.  
 PR 26-OCT-1999; 99US-0161359.  
 PR 26-OCT-1999; 99US-0161360.  
 PR 26-OCT-1999; 99US-0161361.  
 PR 28-OCT-1999; 99US-0161920.  
 PR 28-OCT-1999; 99US-0161922.  
 PR 28-OCT-1999; 99US-0161993.  
 PR 29-OCT-1999; 99US-0162142.

Query Match 13.8%; Score 273; DB 21; Length 423;  
 Best Local Similarity 26.1%; Pred. No. 5, 5e-21;  
 Matches 71; Conservative 50; Mismatches 107; Indels 44; Gaps 6;

QY 35 TVSVVMGMLFSGCSEIRKMSHRRPGIANGLLCGGMPFAYLLAISFSLKP 94  
 DB 128 TDLFTLGGFLMSGLTLTFEDFRRCLEPMTVGGLAQWIKPILGFLIAMLTKLSA 187  
 QY 95 VOAIVALMGCCPGGTISNIFTFWVDGMDLSISMTGCTVALGMPPLCIYLTWMSL 154  
 DB 188 PLATLIIVSCCPGQASNVATYISKGNVALSVMTGCTGAIIMTPLL-----KL 240  
 QY 155 QONLTIPIYONIGI---TLVCLTIPIVAFGVYVYVYRMPKOSKIILKIGAVGVLLVVA-- 209  
 DB 241 LAGQVLPVDAAGLALSTFQVVLVPTIIGVLANEFPPKFSKIITVPLIGVILITLCLAS 300  
 QY 210 -----VAGVVLAKGSNNSDITLITLITFIPL-IGHVTGFLALFTHQ 250  
 DB 301 PTGIGIDYLLISSEKIGQVADVLTQGA-----QLIDPVALLHAAAFAGIYWISK 350  
 QY 251 ---SMQRCRTISLETGAONICOMCTMLQSLFT 279  
 DB 351 FSGESTSKRTISIECGMOSSALGFLLAQKHFT 382

RESULT 10  
 AAG91138  
 ID AAG91138 standard; Protein; 335 AA.  
 AC AAG91138;  
 XX  
 DT 26-SEP-2001 (first entry)  
 DE C glutamicum protein fragment SEQ ID NO: 4892.  
 XX  
 KW Corynebacterium; amino acid synthesis; vitamin; saccharide;  
 KW organic acid synthesis.  
 XX  
 OS Corynebacterium glutamicum.  
 XX  
 PN EPI108790-A2.  
 XX  
 PD 20-JUN-2001.  
 XX  
 PF 18-DEC-2000; 2000EP-0127688.

XX 16-DEC-1999; 99JP-0377484.  
 PR 07-APR-2000; 2000JP-0159152.  
 PR 03-AUG-2000; 2000JP-0280988.  
 XX  
 XX (KYOW) KYOWA HAKKO KOGYO KK.  
 XX  
 PI Nakagawa S, Mizoguchi H, Ando S, Hayashi M, Ochiai K, Yokoi H;  
 PI Tateishi N, Senoh A, Ikeda M, Ozaki A;  
 DR WPI; 2001-376931/40.  
 DR N-PSDB; AAH66357.  
 PT Novel polynucleotides derived from Corynebacterium bacteria, for identifying  
 PT mutation point of a gene, measuring expression of a gene, analysing  
 PT expression profile or pattern of a gene and identifying homologous gene  
 PS  
 XX  
 CC Claim 17; SEQ ID NO: 4892; 246bp + Sequence Listing; English.  
 CC The present invention provides a number of nucleotide and protein  
 CC sequences from the Corynebacterium bacterium Corynebacterium glutamicum. These  
 CC are useful for identifying the mutation point of a gene derived from a  
 CC mutant of corynebacterium bacterium, measuring expression amount and  
 CC analysing the expression profile or expression pattern of a gene derived  
 CC from Corynebacterium bacterium, and identifying a homologue of a gene derived  
 CC from corynebacterium bacterium. Corynebacterium bacteria are useful for producing  
 CC amino acids, nucleic acids, vitamins, saccharides and organic acids,  
 CC particularly L-lysine. The present sequence is a protein described  
 CC in the exemplification of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from the  
 CC European Patent Office.

Query Match 13.6%; Score 268.5; DB 22; Length 335;  
 Best Local Similarity 25.7%; Pred. No. 1, 2e-20;  
 Matches 76; Conservative 72; Mismatches 127; Indels 21; Gaps 7;

QY 31 ELVFTVSTV---MMGLMFLSGCSEIRKMSHRRPGIANGLLCGGMPFAYLLAI 88  
 DB 40 DVNLNISMVNPGLIGIIFMSGLTLKPDPAVAKRPLPVLIGVIAQVIMPLIALVVM 99  
 QY 89 SPSLKPVAIVALMGCCPGGTISNIFTFWVDGMDLSISMTGCTVALGMPPLCIY 148  
 DB 100 VLOLPAEIAAGVILVGCAPGGTSSNVVSYLSRGDVALSVTMTSITLAPITPLLTV-- 157  
 QY 149 TWSMGLQONLTIPIYONIGITLV-CLTIPIVAFGVYVYVYRMPKOSKIILKIGAVGVLLLV 207  
 DB 158 ---WLAGQVMPLNADMAVSIIVQVVLIPVAGLVRLIFP---TLIGKVLPLIPWISVIA 211  
 QY 208 VAVAGVVLAKGS---MNSDITLITISPIPLIGHVTGFLALFTHQSMQRCRTISLETG 263  
 DB 212 ISLIVAIIVAGSRDKILFAGLVLAAVIITHMTLGSLGYLAKFTGQPAARRTAIVBG 271  
 QY 264 AQNTOMCTMLQLSTAEHLVOMLSFLA-YGLPOLIDGFLIVAAVQYVKRLKXK 318  
 DB 272 MGN-----SGLAAGLASQMSPMSPALPGAIFFSWHNLGALLAALCRASDRRAEK 322

RESULT 11  
 ABB70896  
 ID ABB70896 standard; Protein; 455 AA.  
 AC ABB70896;  
 XX  
 DT 26-MAR-2002 (first entry)  
 DE Drosophila melanogaster polypeptide SEQ ID NO 39480.  
 XX  
 KW Drosophila; developmental biology; cell signalling; insecticide;  
 KW pharmaceutical.

XX OS Drosophila melanogaster.  
XX PN WO200171042-A2.  
XX PD 27-SEP-2001.  
XX PF 23-MAR-2001; 2001WO-US09231.  
XX PR 23-MAR-2000; 2000US-191637P.  
XX PR 11-JUL-2000; 2000US-0614150.  
XX (PEKE ) PE CORP NY.  
XX PI Venter JC, Adams M, Li PWD, Myers EW;  
XX DR N-PSDB; ABL14999.  
XX PT New isolated nucleic acid detection reagent for detecting 1000 or more  
gene from Drosophila and for elucidating cell signalling and cell-cell  
interactions -  
PS Disclosure; SEQ ID NO 39480; 21bp + Sequence Listing; English.  
XX CC The invention relates to an isolated nucleic acid detection reagent  
XX CC capable of detecting 1000 or more genes from Drosophila. The invention is  
XX CC useful in developmental biology and in elucidating cell signalling and  
XX CC cell-cell interactions in higher eukaryotes for the development of  
XX CC insecticides, therapeutics and pharmaceutical drugs. The invention  
XX CC discloses genomic DNA sequences (AB16176-AB130511), expressed DNA  
XX CC sequences (AB101840-AB16175) and the encoded proteins  
XX CC (AB57737-AB572072).  
XX CC The sequence data for this patent did not form part of the printed  
XX CC specification, but was obtained in electronic format directly from WIPO  
XX CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX SQ Sequence 455 AA;  
Query Match 13.4%; Score 266; DB 22; Length 455;  
Best Local Similarity 26.6%; Pred. No. 3.6e-20;  
Matches 75; Conservative 57; Mismatches 126; Indels 24; Gaps 7;  
QY 7 SSSACAN--SSEELPVGLEHGN-LELVFTVSTVMGLMFSLGCSVEIRKLSHRR 64  
DB 124 NSELEPTNMSNDSTLVKIKRPRVVDIFLGTIIILMSILYISFGAALNDVLRGLTR 183  
QY 65 PNCIAGVLGCGFGLMFTYLAII-SFSLKPVQAIIVLMGCCPGGTISNIFFWVDGM 123  
DB 184 PTGPGICGFVWQVGMPLSLVALGVPIFPQAPAMQLGFTGISPSGASNTWSAVLGGNI 243  
QY 124 DISISMTGCTVAALGMPICILYLTWMSLQO-----NLPIYONIGITLVCITPVA 177  
DB 244 HLSVLTMTTYSNVAAFPATIPL-----WTTTLGGLIFERAGIKVPYKIASYSLSLPL 297  
QY 178 FGYYVYVRRPKOSKIILKIGAVVGVLVAVAGV-----LAKSSNSDITLITISIT 232  
DB 298 LGLVQKRMPOVARVAVLRILKPVSAFIITIIIFAIINNFYLFYLSWQ---IVAGNA 353  
QY 233 PFLIGHVTGFLALFTHOSWQRCRTISLETGAONIGMCTML 274  
DB 354 LPLGLITFAFLAKKILHQNADALITTAITGIONGIALIFLL 395  
RESULT 12  
ABG64873  
ID .ABG64873 standard; Protein; 196 AA.  
XX AC ABG64873;  
XX DT 27-AUG-2002 (first entry)  
XX DE Human albumin fusion protein #1548.

XX KW Albumin fusion protein; therapeutic protein X; human albumin; HA;  
XX KW human serum albumin; HSA; cancer; reproductive disorder;  
XX KW digestive disorder; immune disorder; endocrine disorder;  
XX KW haematopoietic disorder; neural disorder; connective disorder;  
XX KW cytostatic; antifertility; antiinflammatory; antifuse;  
XX KW immunomodulator; anti-HIV; antidiabetic; haemostatic; nootropic;  
XX KW neuroprotective; antiparkinsonian; antimicrobial; neuroleptic;  
XX KW osteopathic; antiarthritic.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN WO200177137-A1.  
XX PD 18-OCT-2001.  
XX PF 12-APR-2001; 2001WO-US11988.  
XX PR 12-APR-2000; 2000US-229358P.  
XX PR 25-APR-2000; 2000US-199384P.  
XX PR 21-DEC-2000; 2000US-256931P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX PI Rosen CA, Haseltine WA;  
XX DR WPI; 2002-010886/01.  
XX PT New fusion protein for treating disease e.g. diabetes comprises an  
PT albumin fused to a therapeutic protein -  
PS Claim 1; Page 1569-1570; 2102pp; English.  
XX CC The present invention relates to albumin fusion proteins comprising a  
XX CC therapeutic protein X and human albumin (HA, also known as human serum  
XX CC albumin, HSA). The proteins are useful for treating a disease or  
XX CC disorder that may be modulated by therapeutic protein X. The albumin  
XX CC extends the shelf-life of protein X, and may increase its biological  
XX CC in vitro/in vivo activity. The protein is useful for treating and  
XX CC diagnosing disorders such as cancer, reproductive disorders, digestive  
XX CC disorders (e.g. Crohn's disease, ulcerative colitis), immune disorders  
XX CC (e.g. acquired immunodeficiency syndrome, AIDS), endocrine disorders  
XX CC (e.g. diabetes), haematopoietic disorders, neural disorders  
XX CC (e.g. Alzheimer's, Parkinson's, Creutzfeldt-Jacob disease,  
XX CC encephalomyelitis, meningitis, schizophrenia), and connective disorders  
XX CC (e.g. osteoporosis, arthritis). ABG63326-ABG65518 represent albumin  
XX CC fusion proteins of the invention.  
XX SQ Sequence 196 AA;  
Query Match 13.4%; Score 265.5; DB 23; Length 196;  
Best Local Similarity 33.0%; Pred. No. 1.3e-20;  
Matches 59; Conservative 35; Mismatches 50; Indels 35; Gaps 4;  
QY 119 VDGDNDLSMTGCTVAALGMPICILYLTWMS--SLQQLTIPYONIGITLVCITP 175  
DB 5 VDGDNDLSMTGCTVAALGMPICILYLTWMS--SLQQLTIPYONIGITLVCITP 175  
QY 176 VAFGVYVYVRRPKOSKIILKIGAVVGVLVAVAGV-----LAKSSNSDITLITISIT 232  
DB 63 IGLGVFIIRKYSRVADYIVKYSLSLVLTVLVFLMTGMLCPPELLASIPAAVYIA--- 119  
QY 220 WNSDITLITISIFPLIGHVTGFLALFTHOSWQRCRTISLETGAONIGMCTMLQLSP 278  
DB 120 -----IFWLAGVAGSGLATLFLPLPNCKRTVCLETGSQNVQLCTAIIKLAF 167  
RESULT 13  
AAE21198  
ID .AAE21198 standard; Protein; 196 AA.  
XX AC AAE21198;  
XX DT 27-AUG-2002 (first entry)  
XX DE Human albumin fusion protein #1548.

XX	01-UU-2002	(first entry)
XX	Human gene 8 encoded secreted protein HBCPB32, SEQ ID NO:63.	
XX	Human; secreted protein; immune disorder; anti-allergic; anti-rheumatic;	
XX	rheumatoid arthritis; breast neoplasia; breast cancer; anti-arthritis;	
XX	neurological disease; Alzheimer's disease; Parkinson's disease; trauma;	
XX	Tourette syndrome; encephalitis; cyrostatic; haemostatic; anaemia; mania	
XX	anti-inflammatory; ophthalmological; dermatological; immunostimulatory;	
XX	immunomodulatory; immunosuppressive; antibacterial; antipsoriatic;	
XX	gene therapy; autoimmune disease; Huntington's disease; meningitis;	
XX	demyelinating disease; peripheral neuropathy; congenital malformation;	
XX	spinal cord injury; peripheral neuropathy; ischaemia; perception;	
XX	multiple sclerosis; infection; haemorrhage; schizophrenia; dementia;	
XX	depression; panic disorder; learning disability; AIDS; feeding disorder;	
XX	hyperproliferative disorder; sleep pattern; cardiovascular disorder;	
XX	reproductive disorder; digestive system disorder; behavioural disorder.	
XX	Homo sapiens.	
XX	Key	Location/Qualifiers
XX	Peptide	1..25
XX	Protein	/label= Signal_peptide
XX		26..95
XX		/note= "Human mature secreted protein"
XX	Misc-difference	171
XX		/label= Unknown
XX		/note= "Encoded by YAT"
XX	Misc-difference	175
XX		/label= Unknown
XX		/note= "Encoded by GKA"
XX	Misc-difference	177
XX		/label= Unknown
XX		/note= "Encoded by GKT"
XX	Misc-difference	181
XX		/label= Unknown
XX		/note= "Encoded by GKA"
XX	Misc-difference	185
XX		/label= Unknown
XX		/note= "Encoded by YCA"
XX	Misc-difference	188
XX		/label= Unknown
XX		/note= "Encoded by ARA"
XX	Misc-difference	189
XX		/label= Unknown
XX		/note= "Encoded by ASC"
XX	WO200216390-A1.	
XX	28-FEB-2002.	
XX	17-JAN-2001; 2001WO-US01435.	
XX	18-AUG-2000; 2000US-226282P.	
XX	(HUMA-) HUMAN GENOME SCI INC.	
XX	Rosen CA, Komatsoulis GA, Baker KP, Birse CE, Soppet DR, Olsen HS;	
XX	Moore PA, Wei P, Edner R, Duan DR, Shi Y, Choi GH, Fiscella M;	
XX	Ni J;	
XX	WPI, 2002-304113/34.	
XX	N-PSDB; AAD33659.	
XX	An isolated nucleic acid molecule (I) comprising a polynucleotide which	
XX	encodes a polypeptide useful in the diagnosis and treatment of	
XX	disorders e.g. immune disorders -	
XX	Claim 11; Page 477; 534pp; English.	
XX	AAD33659-AAD33736 represent cDNAs corresponding to 21 human secreted	
XX	protein genes, and AAE21191-AAE21235 represent the proteins they encode	

CC AAEI2136-AAEI1280 represent human secreted protein fragments. The genes  
CC and their corresponding secreted proteins are useful for preventing,  
CC treating or ameliorating medical conditions, e.g., by protein or gene  
CC therapy. Pathological conditions can be diagnosed by determining the  
CC amount of the new protein in a sample or by determining the presence of  
CC mutations in the new genes. Specific uses are described for each of the  
CC 21 genes, based on the tissues in which they are most highly expressed,  
CC and include developing products for the diagnosis or treatment of  
CC immune or autoimmune diseases e.g. AIDS (acquired immune deficiency  
CC syndrome), asthma, anaemia and rheumatoid arthritis, breast neoplasia  
CC and breast cancer, neurological diseases e.g. Alzheimer's disease,  
CC Parkinson's disease, Huntington's disease, Tourette syndrome,  
CC meningitis, demyelinating disease, peripheral neuropathies, neoplasia,  
CC trauma, congenital malformations, spinal cord injuries, toxic  
CC neuropathies induced by neurotoxins, peripheral neuropathies, multiple  
CC sclerosis, ischaemia and infarction, haemorrhages, schizophrenia, mania,  
CC dementia, depression, panic disorder, learning disabilities, ALS,  
CC altered behaviours e.g. disorders in feeding, sleep patterns, balance  
CC and perception, encephalitis, disorders in cardiovascular, neural/  
CC sensory, reproductive and digestive systems, behavioural disorders and  
CC hyperproliferative disorder. The present sequence represents a human  
CC secreted protein of the invention.

CC CC

CC Sequence 196 AA;

CC SQ

Query Match 13.4%; Score 265.5; DB 23; Length 196;  
Best Local Similarity 33.0%; Pred. No. 1.3e-20;  
Matches 59; Conservative 35; Mismatches 50; Indels 35; Gaps 4.

QY 119 VDGDMDLISMTTSTVALGMMPLCIYLWMSW---SLQQNLTPYQNIQTWCILNP 175  
DB 5 VDGDNLSITNTISTLTALVLPCLMWYSMAWINPIVQ--LPLGTVTLLCSTLP 62  
QY 176 VAFGVVVYRMPKOSKIILKI-----GAVVGVLVVAAGVLAGKS 219  
DB 63 IGLGFIRKYKSRADYIVKXSWLSLVTLVLFIMCTMGPELLASIPAAVVYA--- 119  
QY 220 WNSDITLTITSFIPPLIGHVTGPLIALFTHSWORCRTISLETGAONIQTMCITMQLSFP 278  
DB 120 -----IFMPLAGYASGYGLATLFHLPNCKRCVLCETGSQNVLCTAIKLAF 167

RESULT 14  
AAG92300  
ID AAG92300 standard; Protein; 324 AA.  
XX AC AAG92300;  
XX AD  
XX AE  
XX AF  
XX AG  
XX AH  
XX AI  
XX AJ  
XX AK  
XX AL  
XX AM  
XX AN  
XX AO  
XX AP  
XX AQ  
XX AR  
XX AS  
XX AT  
XX AU  
XX AV  
XX AW  
XX AX  
XX AY  
XX AZ  
XX BA  
XX BB  
XX BC  
XX BD  
XX BE  
XX BF  
XX BG  
XX BH  
XX BI  
XX BJ  
XX BK  
XX BL  
XX BM  
XX BN  
XX BO  
XX BP  
XX BQ  
XX BR  
XX BS  
XX BT  
XX BU  
XX BV  
XX BW  
XX BX  
XX BY  
XX BZ  
XX CA  
XX CB  
XX CC  
XX CD  
XX CE  
XX CF  
XX CG  
XX CH  
XX CI  
XX CJ  
XX CK  
XX CL  
XX CM  
XX CN  
XX CO  
XX CP  
XX CQ  
XX CR  
XX CS  
XX CT  
XX CU  
XX CV  
XX CW  
XX CX  
XX CY  
XX CZ  
XX DA  
XX DB  
XX DC  
XX DD  
XX DE  
XX DF  
XX DG  
XX DH  
XX DI  
XX DJ  
XX DK  
XX DL  
XX DM  
XX DN  
XX DO  
XX DP  
XX DQ  
XX DR  
XX DS  
XX DT  
XX DU  
XX DV  
XX DW  
XX DX  
XX DY  
XX EZ  
XX FA  
XX FB  
XX FC  
XX FD  
XX FE  
XX FF  
XX FG  
XX FH  
XX FI  
XX FJ  
XX FK  
XX FL  
XX FM  
XX FN  
XX FO  
XX FP  
XX FQ  
XX FR  
XX FS  
XX FT  
XX FU  
XX FV  
XX FW  
XX FX  
XX FY  
XX FZ  
XX GA  
XX GB  
XX GC  
XX GD  
XX GE  
XX GF  
XX GG  
XX GH  
XX GI  
XX GJ  
XX GK  
XX GL  
XX GM  
XX GN  
XX GO  
XX GP  
XX GQ  
XX GR  
XX GS  
XX GT  
XX GU  
XX GV  
XX GW  
XX GX  
XX GY  
XX HZ  
XX HA  
XX HB  
XX HC  
XX HD  
XX HE  
XX HF  
XX HG  
XX HH  
XX HI  
XX HJ  
XX HK  
XX HL  
XX HM  
XX HN  
XX HO  
XX HP  
XX HQ  
XX HR  
XX HS  
XX HT  
XX HU  
XX HV  
XX HW  
XX HX  
XX HY  
XX IZ  
XX IA  
XX IB  
XX IC  
XX ID  
XX IE  
XX IF  
XX IG  
XX IH  
XX II  
XX IJ  
XX IK  
XX IL  
XX IM  
XX IN  
XX IO  
XX IP  
XX IQ  
XX IR  
XX IS  
XX IT  
XX IU  
XX IV  
XX IW  
XX IX  
XX JZ  
XX JA  
XX JB  
XX JC  
XX JD  
XX JE  
XX JF  
XX JG  
XX JH  
XX JI  
XX JJ  
XX JK  
XX JL  
XX JM  
XX JN  
XX JO  
XX JP  
XX JQ  
XX JR  
XX JS  
XX JT  
XX JU  
XX JV  
XX JW  
XX JX  
XX JY  
XX JZ  
XX KA  
XX KB  
XX KC  
XX KD  
XX KE  
XX KF  
XX KG  
XX KH  
XX KI  
XX KJ  
XX KK  
XX KL  
XX KM  
XX KN  
XX KO  
XX KP  
XX KQ  
XX KR  
XX KS  
XX KT  
XX KU  
XX KV  
XX KW  
XX KY  
XX LA  
XX LB  
XX LC  
XX LD  
XX LE  
XX LF  
XX LG  
XX LH  
XX LI  
XX LJ  
XX LK  
XX LL  
XX LM  
XX LN  
XX LO  
XX LP  
XX LQ  
XX LR  
XX LS  
XX LT  
XX LU  
XX LV  
XX LW  
XX LX  
XX LY  
XX LZ  
XX MA  
XX MB  
XX MC  
XX MD  
XX ME  
XX MF  
XX MG  
XX MH  
XX MI  
XX MJ  
XX MK  
XX ML  
XX MN  
XX MO  
XX MP  
XX MQ  
XX MR  
XX MS  
XX MT  
XX MU  
XX MV  
XX MW  
XX MX  
XX MY  
XX MZ  
XX NA  
XX NB  
XX NC  
XX ND  
XX NE  
XX NF  
XX NG  
XX NH  
XX NI  
XX NJ  
XX NK  
XX NL  
XX NM  
XX NO  
XX NP  
XX NQ  
XX NR  
XX NS  
XX NT  
XX NU  
XX NV  
XX NW  
XX NX  
XX NY  
XX NZ  
XX OA  
XX OB  
XX OC  
XX OD  
XX OE  
XX OF  
XX OG  
XX OH  
XX OI  
XX OJ  
XX OK  
XX OL  
XX OM  
XX ON  
XX OO  
XX OP  
XX OQ  
XX OR  
XX OS  
XX OT  
XX OU  
XX OV  
XX OW  
XX OX  
XX OY  
XX OZ  
XX PA  
XX PB  
XX PC  
XX PD  
XX PE  
XX PF  
XX PG  
XX PH  
XX PI  
XX PJ  
XX PK  
XX PL  
XX PM  
XX PN  
XX PO  
XX PP  
XX PQ  
XX PR  
XX PS  
XX PT  
XX PU  
XX PV  
XX PW  
XX PX  
XX PY  
XX PZ  
XX QA  
XX QB  
XX QC  
XX QD  
XX QE  
XX QF  
XX QG  
XX QH  
XX QI  
XX QJ  
XX QK  
XX QL  
XX QM  
XX QN  
XX QO  
XXQP  
XX QR  
XX QS  
XX QT  
XX QU  
XX QV  
XX QW  
XX QX  
XX QY  
XX QZ  
XX RA  
XX RB  
XX RC  
XX RD  
XX RE  
XX RF  
XX RG  
XX RH  
XX RI  
XX RJ  
XX RK  
XX RL  
XX RM  
XX RN  
XX RO  
XX RP  
XX RQ  
XX RR  
XX RS  
XX RT  
XX RU  
XX RV  
XX RW  
XX RX  
XX RY  
XX RZ  
XX SA  
XX SB  
XX SC  
XX SD  
XX SE  
XX SF  
XX SG  
XX SH  
XX SI  
XX SJ  
XX SK  
XX SL  
XX SM  
XX SN  
XX SO  
XX SP  
XX SQ  
XX SR  
XX SS  
XX ST  
XX SU  
XX SV  
XX SW  
XX SX  
XX SY  
XX SZ  
XX TA  
XX TB  
XX TC  
XX TD  
XX TE  
XX TF  
XX TG  
XX TH  
XX TI  
XX TJ  
XX TK  
XX TL  
XX TM  
XX TN  
XX TO  
XX TP  
XX TQ  
XX TR  
XX TS  
XX TT  
XX TU  
XX TV  
XX TW  
XX TX  
XX TY  
XX TZ  
XX UA  
XX UB  
XX UC  
XX UD  
XX UE  
XX UF  
XX UG  
XX UH  
XX UI  
XX UJ  
XX UK  
XX UL  
XX UM  
XX UN  
XX UO  
XX UP  
XX UQ  
XX UR  
XX US  
XX UT  
XX UU  
XX UV  
XX UW  
XX UX  
XX UY  
XX UZ  
XX VA  
XX VB  
XX VC  
XX VD  
XX VE  
XX VF  
XX VG  
XX VH  
XX VI  
XX VJ  
XX VK  
XX VL  
XX VM  
XX VN  
XX VO  
XX VP  
XX VQ  
XX VR  
XX VS  
XX VT  
XX VU  
XX VV  
XX VW  
XX VX  
XX VY  
XX VZ  
XX WA  
XX WB  
XX WC  
XX WD  
XX WE  
XX WF  
XX WG  
XX WH  
XX WI  
XX WJ  
XX WK  
XX WL  
XX WM  
XX WN  
XX WO  
XX WP  
XX WQ  
XX WR  
XX WS  
XX WT  
XX WU  
XX WV  
XX WW  
XX WX  
XX WY  
XX WZ  
XX XA  
XX XB  
XX XC  
XX XD  
XX XE  
XX XF  
XX XG  
XX XH  
XX XI  
XX XJ  
XX XK  
XX XL  
XX XM  
XX XN  
XX XO  
XX XP  
XX XQ  
XX XR  
XX XS  
XX XT  
XX XU  
XX XV  
XX XW  
XX XX  
XX XY  
XX XZ  
XX YA  
XX YB  
XX YC  
XX YD  
XX YE  
XX YF  
XX YG  
XX YH  
XX YI  
XX YJ  
XX YK  
XX YL  
XX YM  
XX YN  
XX YO  
XX YP  
XX YQ  
XX YR  
XX YS  
XX YT  
XX YU  
XX YV  
XX YW  
XX YX  
XX YY  
XX YZ  
XX ZA  
XX ZB  
XX ZC  
XX ZD  
XX ZE  
XX ZF  
XX ZG  
XX ZH  
XX ZI  
XX ZJ  
XX ZK  
XX ZL  
XX ZM  
XX ZN  
XX ZO  
XX ZP  
XX ZQ  
XX ZR  
XX ZS  
XX ZT  
XX ZU  
XX ZV  
XX ZW  
XX ZX  
XX ZY  
XX ZZ  
XX AA  
XX AB  
XX AC  
XX AD  
XX AE  
XX AF  
XX AG  
XX AH  
XX AI  
XX AJ  
XX AK  
XX AL  
XX AM  
XX AN  
XX AO  
XX AP  
XX AQ  
XX AR  
XX AS  
XX AT  
XX AU  
XX AV  
XX AW  
XX AX  
XX AY  
XX AZ  
XX BA  
XX BB  
XX BC  
XX BD  
XX BE  
XX BF  
XX BG  
XX BH  
XX BI  
XX BJ  
XX BK  
XX BL  
XX BM  
XX BN  
XX BO  
XX BP  
XX BQ  
XX BR  
XX BS  
XX BT  
XX BU  
XX BV  
XX BW  
XX BX  
XX BY  
XX BZ  
XX CA  
XX CB  
XX CC  
XX CD  
XX CE  
XX CF  
XX CG  
XX CH  
XX CI  
XX CJ  
XX CK  
XX CL  
XX CM  
XX CN  
XX CO  
XX CP  
XX CQ  
XX CR  
XX CS  
XX CT  
XX CU  
XX CV  
XX CW  
XX CX  
XX CY  
XX CZ  
XX DA  
XX DB  
XX DC  
XX DD  
XX DE  
XX DF  
XX DG  
XX DH  
XX DI  
XX DJ  
XX DK  
XX DL  
XX DM  
XX DN  
XX DO  
XX DP  
XX DQ  
XX DR  
XX DS  
XX DT  
XX DU  
XX DV  
XX DW  
XX DX  
XX DY  
XX DZ  
XX EA  
XX EB  
XX EC  
XX ED  
XX EE  
XX EF  
XX EG  
XX EH  
XX EI  
XX EJ  
XX EK  
XX EL  
XX EM  
XX EN  
XX EO  
XX EP  
XX EQ  
XX ER  
XX ES  
XX ET  
XX EU  
XX EV  
XX EW  
XX EX  
XX EY  
XX EZ  
XX FA  
XX FB  
XX FC  
XX FD  
XX FE  
XX FG  
XX FH  
XX FI  
XX FJ  
XX FK  
XX FL  
XX FM  
XX FN  
XX FO  
XX FP  
XX FQ  
XX FR  
XX FS  
XX FT  
XX FU  
XX FV  
XX FW  
XX FX  
XX FY  
XX FZ  
XX GA  
XX GB  
XX GC

DR N-PSDB; AAH67519.

PT Novel polynucleotides derived from Coryneform bacteria, for identifying  
PT mutation point of a gene, measuring expression of a gene, analysing  
PT expression profile or pattern of a gene and identifying homologous gene

PS Claim 17; SEQ ID NO: 6054; 246pp + Sequence Listing; English.

CC The present invention provides a number of nucleotide and protein  
CC sequences from the *Corynebacterium* *Corynebacterium glutamicum*. These  
CC are useful for identifying the mutation point of a gene derived from a  
CC mutant of *Corynebacterium* *Corynebacterium*, measuring expression amount and  
CC analysing the expression profile or expression pattern of a gene derived  
CC from *Corynebacterium* *Corynebacterium*, and identifying a homologue of a gene derived  
CC from *Corynebacterium* *Corynebacterium*. *Corynebacterium* bacteria are useful for producing  
CC amino acids, nucleic acids, vitamins, saccharides and organic acids,  
CC particularly L-lysine. The present sequence is a protein described  
CC in the exemplification of the invention.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from the  
CC European Patent Office.

**.SQ Sequence 324 AA;**

Query Match	13.4%	Score 264.5;	DB 22;	Length 324;
Best Local Similarity	25.6%;	Pred. NO. 3.3e-20;		
Matches 66; Conservative	66;	Mismatches 91;	Indels 35;	Gaps 6

QY 40 VMGGLMFSLGCSVEIRKLWSHIRRPWGIAVGLLCQFGLMPTAYLLAISFSCLKPVQAI A 9

Db 44 IFLTIMFTMGLTLVPDFQMVLKRPLILIGVVAQFVIMPLAIVVAKMFNLNPAALVG 103

QY 100 VLIMCCPGTISNFTFWVDGMDLSISMTTCTVAALGMPCLYLT----- 149

Db 104 LMLGSVPGTSSNVI AFLARGDVALSVTMTSVSTIVSPIMTPFLMLLAGTETAVDGGG 163

QY 150 WMSWLOQLTI PYQNI GITLVCLTIPVAFGVYVNYRWPQSKI ILKIGAVGVLLVVA 209

Db 164 MAWTLVQTVLLP-----VIIGLVRFNL-KWIDKILPILPYLSILG----- 204

210 VAGVVLAKGSWNSD--ITLTIISIFIPPLIGHVTGFLALFTHQSWQ---RCRTISLETG 263

Db 205 IGGVFGAVANAERLVSGLIVFAVIHNVLGYYVGLTGRVFKFPEANRTMAIEIG 264

QY 264 A Q N I Q M C I T M L Q L S F T A E 281

Db 265 TQ5AGLASGMAGRFTPE 282

RESULT 15

ID AAG22454 standard; Protein; 271 AA.

AC AAG22454 ;

DT 17-OCT-2000 (first entry)

DE Arabidopsis thaliana protein fragment SEQ ID NO: 25388

KW Protein identification; signal transduction pathway; metabolic pathway;  
 KW hybridisation assay; genetic mapping; gene expression control; promoter  
 KW termination sequence.

OS *Arabidopsis thaliana*.

PN EP1033405-A2.

PD 06-SEP-2000

PF 25-FEB-2000; 2000EP-0301439.

PR 25-FEB-1999; 99US-0121825.



**THIS PAGE BLANK (USPTO)**